

Mannie the Show Dog



Mannie is a show dog. Marco, his owner, wants him to have a beautiful and brilliant coat. The vet suggested a special diet for Marco to follow. Each feeding, Manny eats $\frac{1}{3}$ of a can of wet dog food, $\frac{1}{8}$ of a bag of dry dog food, and $\frac{1}{2}$ a patty of special meat. The special meat comes in a package of 6 patties. Manny has two meals a day.

The dog is completely out of food. Marco goes to the store and buys 24 cans of wet food, 4 bags of dry food and 3 packages of meat.

How many days will the dog be fed before Marco needs to buy any more food? Which type of dog food will Marco run out of first? Explain.

How much of the other two types of dog food will be left after the first type of dog food runs out?

Marco wants to plan better. He goes to the store on the day he ran out of the first type of dog food. He decides to buy enough dog food to last 90 days. Knowing what he already has in the house, how much more of each type of dog food does he need to buy in order to use up all the food in 90 days? Is it possible? Explain.

What is the minimum amount of food Marco could buy on the day that he ran out such that the dog would finish all of it after a certain number of meals? Explain.